


STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Culbertson #11-8-4-2					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR HARVEST (US) HOLDINGS, INC						7. OPERATOR PHONE 281 899-5722					
8. ADDRESS OF OPERATOR 1177 Enclave Parkway, Houston, TX, 77077						9. OPERATOR E-MAIL jmckee@harvestnr.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Elsie J. Culbertson (John)						14. SURFACE OWNER PHONE (if box 12 = 'fee') 303-870-3946					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 9240 Race Street, Denver, CO 80229						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN			
LOCATION AT SURFACE		1980 FSL 1980 FWL		NESW	8	4.0 S	2.0 W	U			
Top of Uppermost Producing Zone		1980 FSL 1980 FWL		NESW	8	4.0 S	2.0 W	U			
At Total Depth		1980 FSL 1980 FWL		NESW	8	4.0 S	2.0 W	U			
21. COUNTY DUCESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 40					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 0			26. PROPOSED DEPTH MD: 9000 TVD: 9000					
27. ELEVATION - GROUND LEVEL 5400			28. BOND NUMBER B 004657			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Neil Moon Pond					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
Cond	20	13.375	0 - 20	0.25	Unknown	8.4	Unknown	1	1.0	1.0	
Surf	12.25	8.625	0 - 900	32.0	J-55 LT&C	8.6	Class G	323	1.15	15.8	
							No Used	0	0.0	0.0	
Prod	7.875	5.5	0 - 9000	17.0	L-80 LT&C	9.7	Unknown	473	1.83	11.0	
							50/50 Poz	573	1.21	14.3	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Don Hamilton			TITLE Permitting Agent (Buys & Associates, Inc)				PHONE 435 719-2018				
SIGNATURE			DATE 03/11/2011				EMAIL starpoint@etv.net				
API NUMBER ASSIGNED 43013506430000			APPROVAL  Permit Manager								

RECEIVED: May. 26, 2011

CONFIDENTIAL STATUS**HARVEST (US) HOLDINGS, INC.****Culbertson # 11 - 8 - 4 - 2**

NE ¼ SW ¼ Section 8-T4S-R2W-U.S.B&M.
Duchesne County, Utah

DRILLING PROGRAM**1. GEOLOGIC SURFACE FORMATION**

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS

UINTAH	0' - 2205'
GREEN RIVER	2,205' - 7285'
UTELAND BUTTE	7,285 - 7,519'
WASATCH	7,519' - TD
TD	9000'

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS

Green River Formation 2,205' - 7,519'

Wasatch Formation 7,519' - 9,000'

Fresh water may be encountered in the Uintah Formation, but would not be expected below about 500'.

4. PROPOSED CASING PROGRAM**a. Casing Design:**

Size	Interval		Wt	Grade	Coupling	Design Factors		
	Top	Bottom				Burst	Collapse	Tension
Conductor 13-3/8" Hole Size 20"	0'	20'	.025	linepipe	ERW			
Surface 8 5/8" Hole Size 12 1/4 "	0'	900'	32.0	J-55	LTC	3930 psi 7.8 SF	2530 psi 8.8 SF	503000 lbm 17.5 SF
Production 5 1/2" Hole Size 7 7/8"	0'	9,000'	17.0	L-80	LTC	7,740 psi 2.4 SF	6390 psi 1.9 SF	397000 lbm 2.5 SF

Assumptions:

- 1) Surface casing Maximum Allowable Surface Pressure (MASP) = Fracture gradient - Gas gradient
- 2) Production casing MASP (production mode) = Pore pressure - gas gradient
- 3) All collapse calculations assume fully evacuated casing w/gas gradient
- 4) All tension calculations assume air weight

Fracture gradient at surface casing shoe =	13.0 ppg
Pore pressure at surface casing shoe =	8.33 ppg
Pore pressure at production casing shoe =	9.2 ppg

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Gas gradient = 0.115 psi/ft
 Frac gradient = 0.93 psi/ft

All casing shall be new or, if used, inspected and tested. Used casing shall meet or exceed API standards for new casing.

All casing strings shall have a minimum of one (1) centralizer on each of the bottom three (3) joints.

b. Cementing Design:

Job	Fill	Description	Sacks ft ³	OH Excess	Weight (ppg)	Yield (ft ³ /sk)
Conductor Casing 13-7/8"	20' to surface	Ready mix				
Surface casing 8-5/8"	900' to surface	Class G w/ 2% CaCl ₂	323 371	30%	15.8	1.15
Production casing 5 1/2" Lead	5000' to surface	75/25 Poz + 6% gel + 2% KCl	473 867	30%	11.0	1.83
Production casing 5 1/2" Tail	5,000' to 9000'	50/50 Poz w/ 2% gel + 3% KCl	573 693	30%	14.3	1.21

*Actual volume pumped will be 15% over the caliper log.

-Compressive strength of lead cement: 1800 psi @ 24 hours, 2250 psi @ 72 hours.

-Compressive strength of tail cement: 2500 psi @ 24 hours

Waiting on Cement (WOC): A minimum of four (4) hours shall elapse prior to attempting any pressure testing of the BOP equipment which would subject the surface casing cement to pressure, and a minimum of six (6) hours shall elapse before drilling out the wiper plug, cement, or shoe is begun. WOC time shall be recorded in the Driller's Log. Compressive Strength shall be a minimum of 500 psi prior to drilling out.

The 8-5/8" surface casing shall, in all cases, be cemented back to surface. In the event that during the primary surface cementing operation, the cement does not circulate to surface, or if the cement level should fall back more than 8' from surface, then a remedial surface cementing operation shall be performed to ensure adequate isolation and stabilization of the surface casing.

The production casing cementing program shall be conducted as approved to protect and/or isolate all usable water zones, potentially productive zones, lost circulation zones, abnormally pressured zones, and any prospectively valuable deposits of minerals.

As a minimum, usable water zones shall be isolated and/or protected by having cement to surface above the base of the usable water. If gilsonite is encountered while drilling, it shall be isolated and/or protected via the cementing program.

CONFIDENTIAL STATUS

Top plugs shall be used to reduce contamination of cement by displacement fluid. A bottom plug or other acceptable technique, such as a suitable pre-flush fluid, inner string cement method, etc., shall be utilized to help isolate the cement from contamination by the mud being displaced ahead of the cement slurry.

All casing strings below the conductor shall be pressure tested to 0.22 psi per foot of casing string length or to 1500 psi, whichever is greater, but not to exceed 70% of the minimum internal yield. If pressure declines more than 10% in 30 minutes, corrective action shall be taken.

5. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS

<u>Depth</u>	<u>Type</u>	<u>Weight</u>	<u>Vis</u>	<u>API Fluid Loss</u>
0'-20'	Water/Gel sweeps	8.4	N/A	N/A
20'-900'	Air or air mist	8.4-8.6	45-55	N/C
850'-9,000'	Water Base Mud	8.6-9.7	45-60	2-8

From surface to 20' will be drilled with fresh water and gel sweeps. From 20' to 850' feet will be drilled with air/air mist or fresh water gel system. From 900'-to Total Depth (TD) 9,000', a Water Base Mud will be used. This system will typically contain Total Dissolved Solids (TDS) of less than 3000 PPM. Anticipated max mud weight at TD is 9.7 ppg.

6. AUXILIARY SAFETY EQUIPMENT TO BE USED

Auxiliary safety equipment will be a Kelly Cock, bit float, and a TIW valve with drill pipe threads.

7. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL

The Company's minimum specifications for pressure control equipment for a standard Green River/Wasatch well are as follows:

A 5000 psi WP hydraulic BOP stack consisting of a double ram preventer and 3000 psi WP annular preventer will be installed before drilling beneath 8 5/8" surface casing.

Connections – All components on the stack and choke and kill lines shall have either flanged, studded, clamp hub or equivalent proprietary connections except control line outlets and pressure gauges.

Choke Manifold – The minimum equipment requirements are shown below. The choke manifold shall be located at least 5 feet from the BOP stack, outside the substructure.

Pressure Monitoring – A means of monitoring the inlet pressure of the choke manifold shall be provided. The capability to isolate this outlet shall be provided.

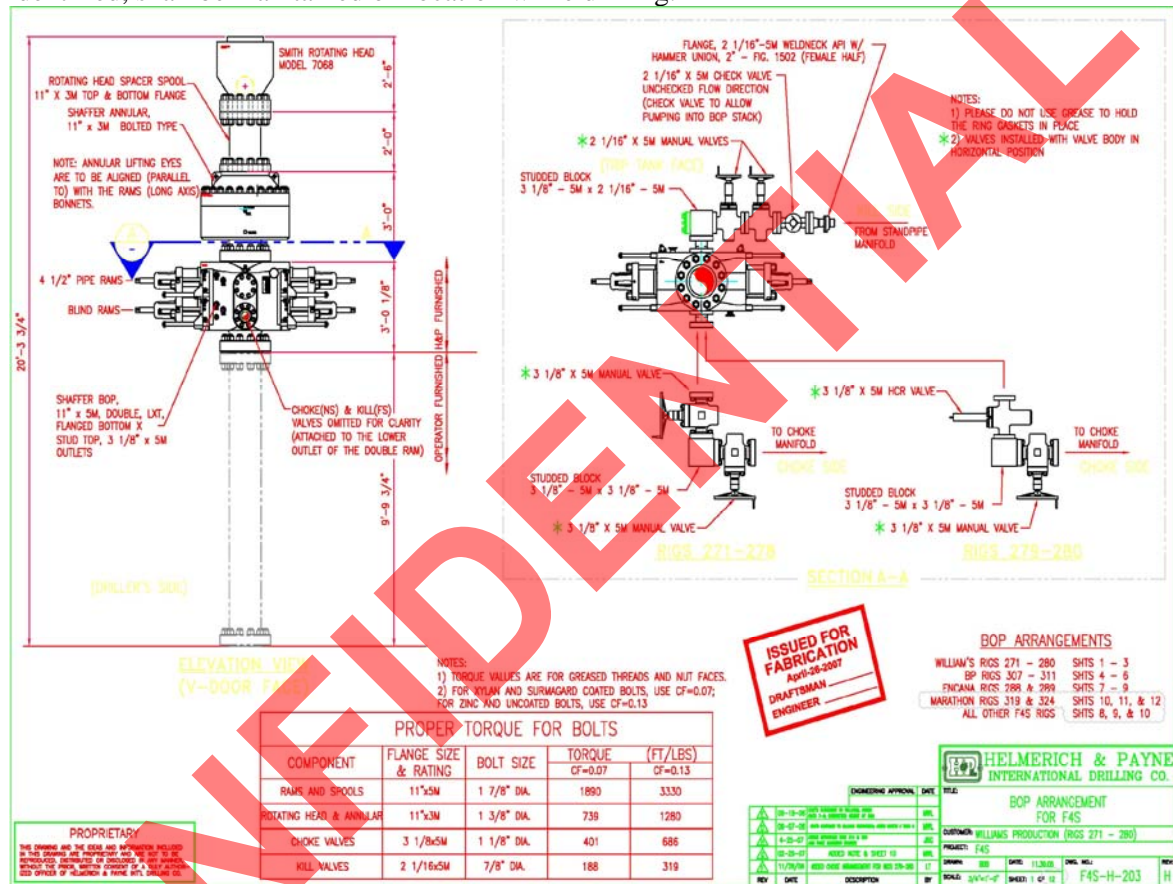
Drill String Control Devices – An upper and lower Kelly valve, drill string safety valve, including correct closing handle, and an inside BOP shall be provided. The safety valve and inside BOP shall have connections or crossovers to fit all tubulars with OD to allow adequate clearance for running in the hole. All drill string valves shall be rated to the required BOP working pressure.

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The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 (BLM) for equipment and testing requirements, procedures, etc., for a 5000 psi system, and individual components shall be operable as designed.

Function test of the BOP equipment shall be made daily. All required BOP tests and/or drills shall be recorded in the Daily report.

Chart recorders will be used for all pressure tests. Test charts, with individual test results identified, shall be maintained on location while drilling.



8. TESTING, LOGGING AND CORING PROGRAMS

a. Logging Program:

QUAD COMBO - TLD/CNL/DSI/SP/GR TD - 3,000'

CBL: A cement bond log will be run from Total Depth to 100' into the surface casing.

Note: The log types run may change at the discretion of the geologist.

b. Cores: No cores planned

c. Drill Stem Tests: No DSTs are planned in the Green River or Wasatch formations

CONFIDENTIAL STATUS

Drill stem tests, if they are run, will adhere to the following requirements: Initial opening of the drill stem test tools shall be restricted to daylight hours unless specific approval to start during other hours is obtained from the Authorized Officer (AO). However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vapor-proof for safe operations). Packers can be released, but tripping shall not begin before daylight, unless prior approval is obtained from the AO. Closed chamber DSTs may be performed day or night.

Some means of reverse circulation shall be provided in case of flow to the surface showing evidence of hydrocarbons.

Separation equipment required for the anticipated recovery shall be properly installed before a test starts.

If a DST is performed, all engines within 100 feet of the wellbore that are required to be operational during the test shall have spark arresters or water-cooled exhausts.

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9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE

No abnormal pressures and temperatures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area at this depth. Maximum anticipated bottom hole pressure will be 0.478 psi/foot of depth.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Anticipated Commencement Date:	July 8, 2011
Drilling Days:	Approximately 7
Completion Days:	Approximately 9

11. CONTACT INFORMATION:

Buys & Associates, Inc.
Don Hamilton/Regulatory Specialist
435-719-2018 Office
435-719-2019 Fax
starpoint@etv.net

Please use the above mentioned contact for any questions or concerns regarding the Form 3 Application for Permit to Drill, Drilling Plan or scheduling the onsite inspection. If the above mentioned contact is not available you may reach the following person:

Harvest (US) Holding, Inc.
Jeff Schrutka
Drilling & Completion Manager
281-899-5776 Office
713-231-8319 Cell
jschrutka@harvestnr.com

T4S, R2W, U.S.B.&M.

HARVEST (US) HOLDINGS, INC.

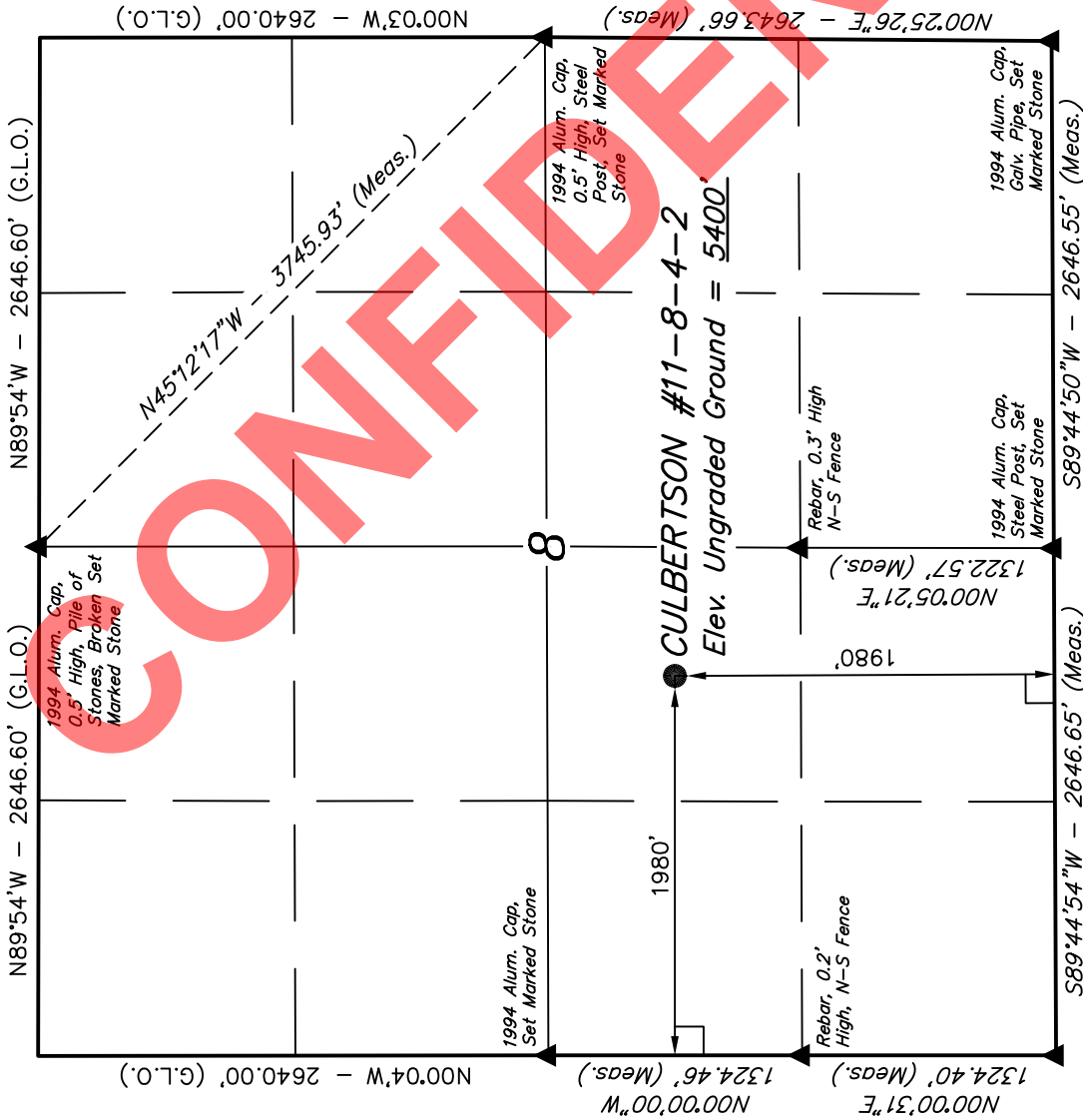
Well location, CULBERTSON #11-8-4-2, located as shown in the NE 1/4 SW 1/4 of Section 8, T4S, R2W, U.S.B.&M., Duchesne County, Utah.

BASIS OF ELEVATION

SPOT ELEVATION LOCATED AT THE SOUTHEAST CORNER OF SECTION 20, T3S, R2W, U.S.B.&M. TAKEN FROM THE MYTON, QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5148 FEET.

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



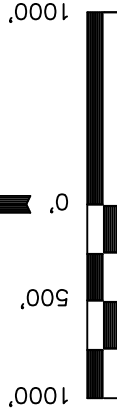
LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

NAD 83
LATITUDE = 40°08 51.38" (40.147606)
LONGITUDE = 110°08 08.44" (110.135678)
NAD27
LATITUDE = 40°08 51.53" (40.147647)
LONGITUDE = 110°08 05.90" (110.134972)



SCALE

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

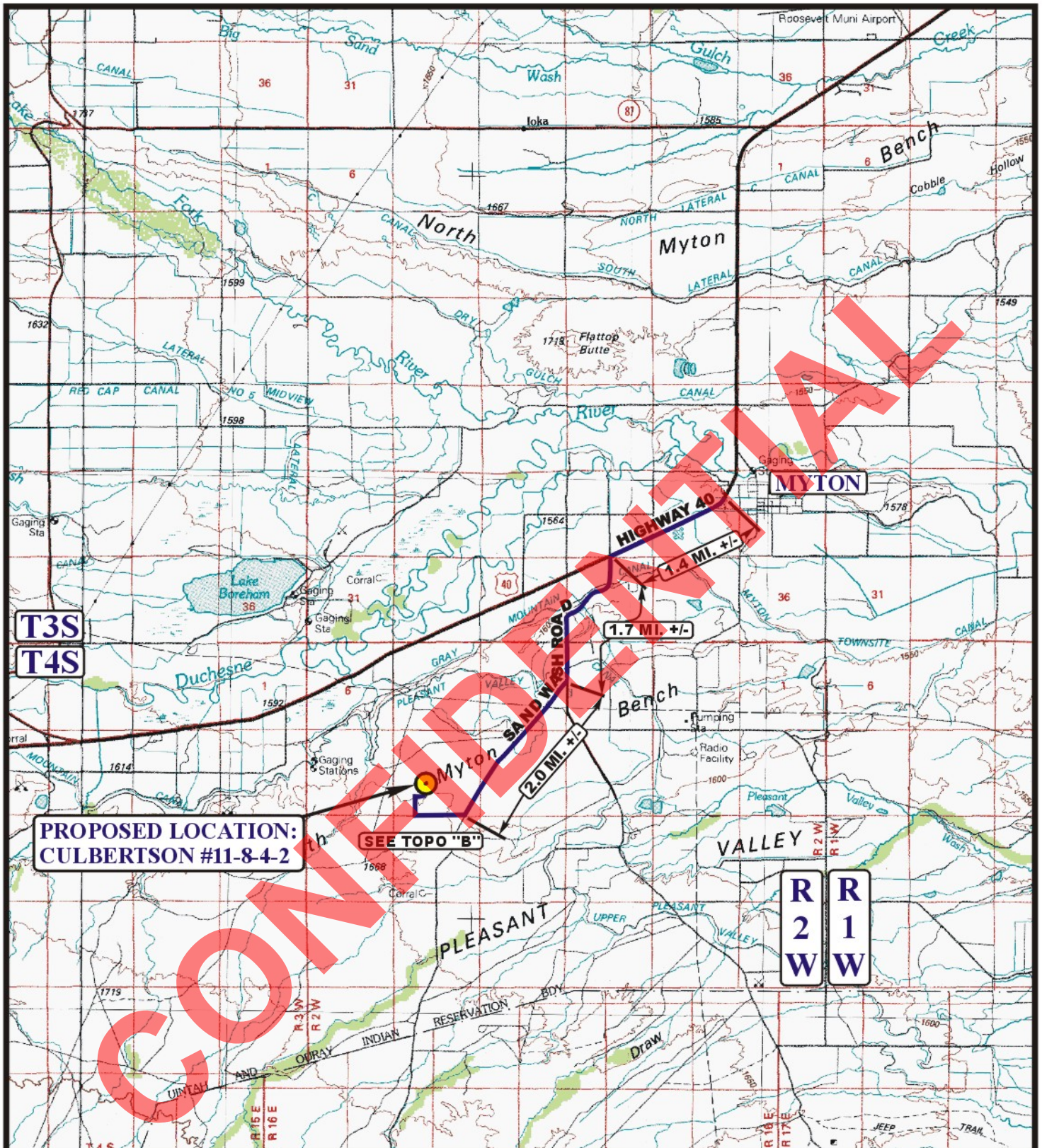
ROBERT A. KAY
REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE 1" = 1000'
DATE SURVEYED: 12-13-10
DATE DRAWN: 01-17-11

PARTY C.R. G.S. C.C.
REFERENCES G.L.O. PLAT

WEATHER COLD
FILE
HARVEST (US) HOLDINGS, INC.



LEGEND:

● PROPOSED LOCATION

HARVEST (US) HOLDINGS, INC.

CULBERTSON #11-8-4-2

SECTION 8, T4S, R2W, U.S.B.&M.

1980' FSL 1980' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



**ACCESS ROAD
MAP**

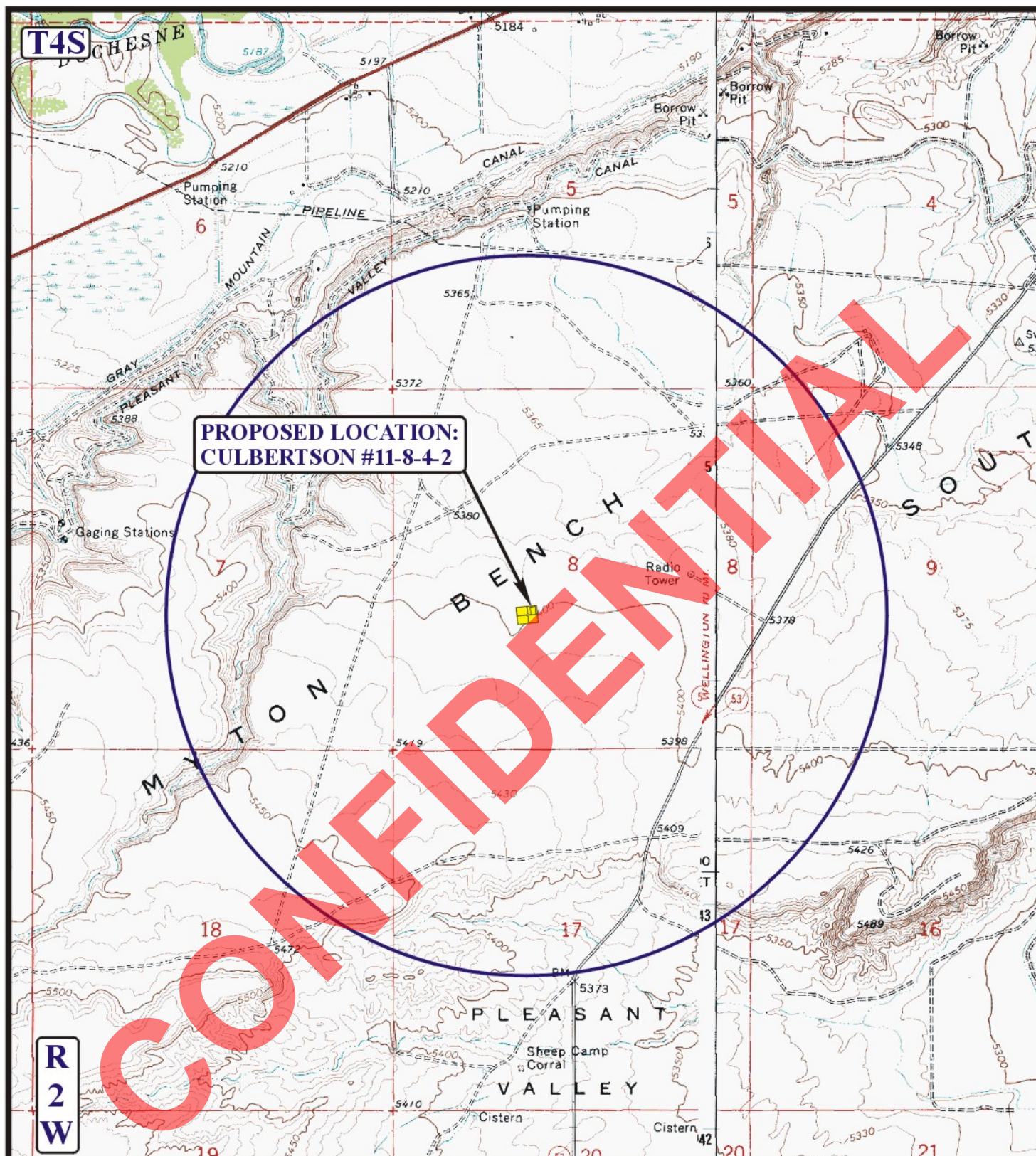
01 14 11
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: J.J.

REVISED: 00-00-00





LEGEND:

- | | |
|-------------------|-------------------------|
| ⊗ DISPOSAL WELLS | ⊗ WATER WELLS |
| ● PRODUCING WELLS | ● ABANDONED WELLS |
| ● SHUT IN WELLS | ● TEMPORARILY ABANDONED |



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HARVEST (US) HOLDINGS, INC.

CULBERTSON #11-8-4-2
SECTION 8, T4S, R2W, U.S.B.&M.
1980' FSL 1980' FWL

TOPOGRAPHIC
MAP

01 14 11
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: J.J. REVISED: 00-00-00



MEMORANDUM OF SURFACE DAMAGE RELEASE

State of Utah)
)
 County of Duchesne)

For Ten Dollars (\$10.00) and other adequate consideration, **Elsie J. Culbertson** whose address is **9240 Race Street, Denver, Colorado 80229-7600**, hereafter referred to as "Surface Owner" has granted, a Surface Damage Release, to **Harvest (US) Holdings, Inc. of 1177 Enclave Parkway, Suite 300, Houston, Texas 77077**, hereafter referred to as "Harvest", dated this 5th day of March, 2010, for the purpose of drilling, and producing oil, gas, and other minerals, laying pipelines, building roads, tanks, power stations, telephone lines and other structures, and producing, saving, take care of, treating, transporting, and owning oil, gas, and other minerals, all on or from Culbertson 11-8-4-2 Well on the following lands (the "Lands") in Duchesne County Utah: **Township 4 South-Range 2 West, USM, Section 8: NW/4SW/4**, Duchesne County, see attached Plat for well location:

The Surface Damage Release is effective as long thereafter as oil, gas, or other minerals are produced from the Lands, or other lands pooled with the Lands, according to and by the terms and provisions of the Lease(s) covering said Lands. This Memorandum is placed of record for the purpose of giving notice of the Surface Damage Release.

This instrument may be executed in multiple counterparts with each counterpart being considered an original for all purposes herein and binding upon the party executing same whether or not this instrument is executed by all parties hereto, and the signature and acknowledgment pages of the various counterparts hereto may be combined into one instrument for the purposes of recording this instrument in the records of the County Recorder's office.

Executed this 5th day of March, 2010.

SURFACE OWNER:

Elsie J. Culbertson
Elsie J. Culbertson

ACKNOWLEDGEMENT

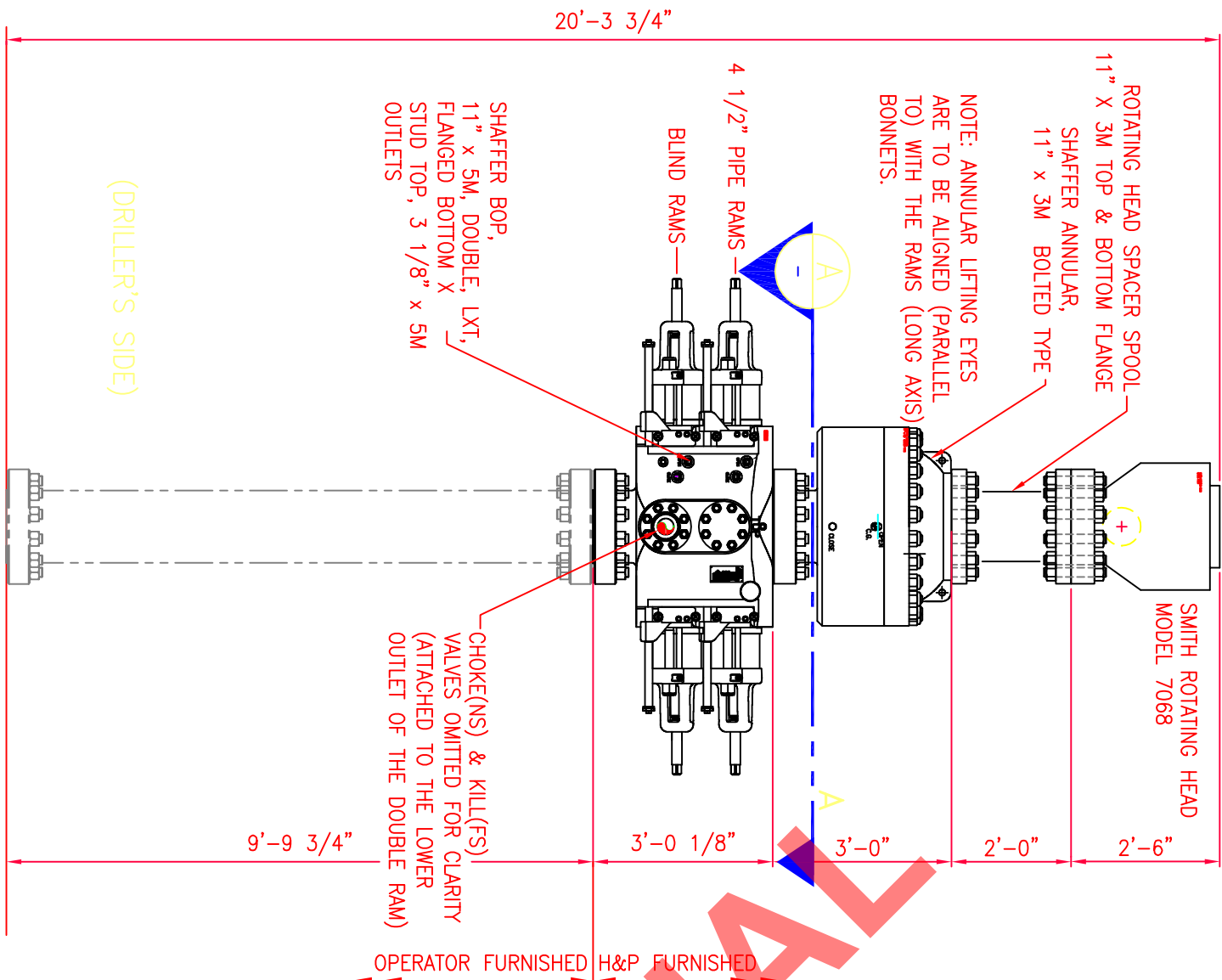
STATE OF UTAH }
 }:SS
 COUNTY OF DUCHESNE }

BEFORE me, the undersigned, a Notary Public in and fore said County and State, on this 5th day of MARCH, 2010, personally appeared **Elsie J. Culbertson**, known to be the identical person(s) who executed the within and foregoing instrument, and acknowledged to me that they executed the same as a free and voluntary act and deed, for the uses and purposes therein set forth. Given under my hand and seal the day and year last above written.

Thomas H. Walker
 Notary Public

My commission expires 3-1-2014

RECEIVED: May. 26, 2011

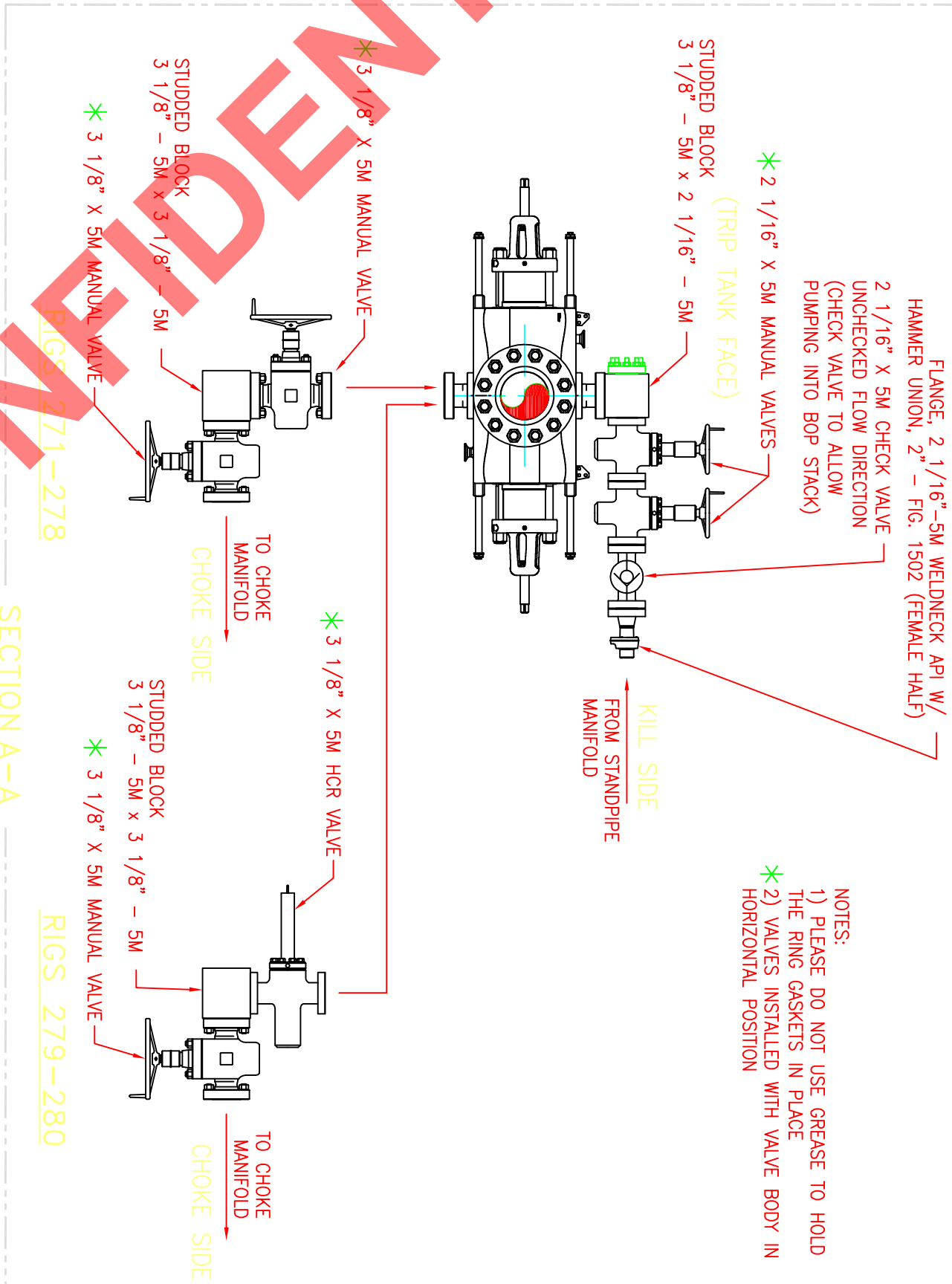


ELEVATION VIEW
(V-DOOR FACE)

- NOTES:
- 1) TORQUE VALUES ARE FOR GREASED THREADS AND NUT FACES.
 - 2) FOR XYLAN AND SURMAGARD COATED BOLTS, USE CF=0.07;
FOR ZINC AND UNCOATED BOLTS, USE CF=0.13

PROPER TORQUE FOR BOLTS

COMPONENT	FLANGE SIZE & RATING	BOLT SIZE	TORQUE (FT/LBS)	
			CF=0.07	CF=0.13
RAMS AND SPOOLS	1 1/2"x5M	1 7/8" DIA.	1890	3330
ROTATING HEAD & ANNULAR	1 1/2"x3M	1 3/8" DIA.	739	1280
CHOKE VALVES	3 1/8x5M	1 1/8" DIA.	401	686
KILL VALVES	2 1/16x5M	7/8" DIA.	188	319



- NOTES:
- 1) PLEASE DO NOT USE GREASE TO HOLD
THE RING GASKETS IN PLACE
 - * 2) VALVES INSTALLED WITH VALVE BODY IN
HORIZONTAL POSITION

BOP ARRANGEMENTS

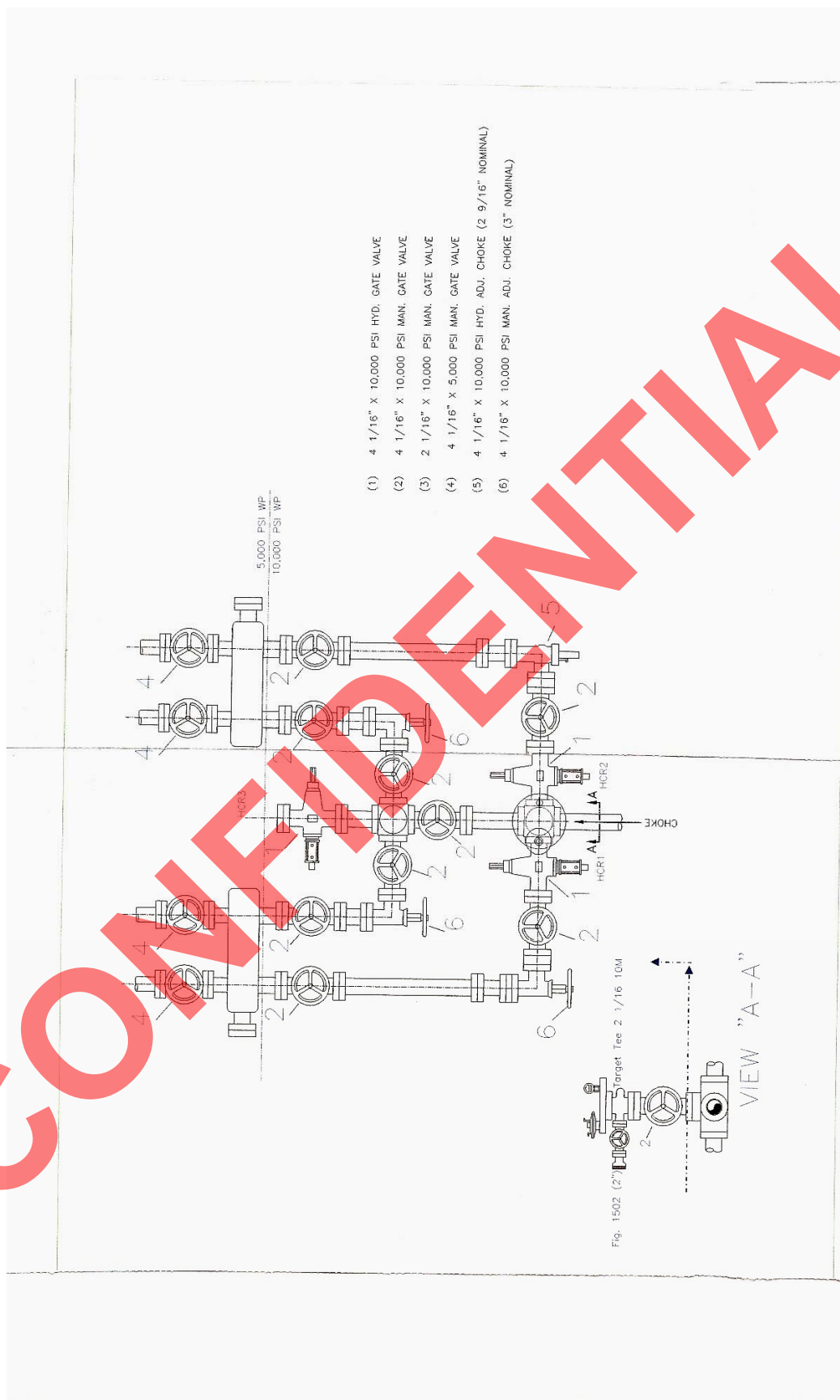
WILLIAM'S RIGS 271 - 280 SHTS 1 - 3
BP RIGS 307 - 311 SHTS 4 - 6
ENCANA RIGS 288 & 289 SHTS 7 - 9
MARATHON RIGS 319 & 324 SHTS 10, 11, & 12
ALL OTHER F4S RIGS SHTS 8, 9, & 10

ISSUED FOR
FABRICATION
April-26-2007
DRAFTSMAN
ENGINEER

HELMERICH & PAYNE
INTERNATIONAL DRILLING CO.

ENGINEERING APPROVAL			TITLE:		
DATE	DATE	DATE	BOP ARRANGEMENT FOR F4S		
MM/LL	MM/LL	MM/LL	CUSTOMER: WILLIAMS PRODUCTION (RIGS 271 - 280)		
09-18-06	09-07-06	04-25-07	PROJECT: F4S		
CHD CUSTOMER TO WILLIAMS, ADDD SHTS 7-9, CORRECTED HEIGHT OF RAM	CHD CUSTOMER TO WILLIAMS PRODUCTION, ADDD SHEETS 2 THRU 6 AND PAGE NUMBERS REVISED	ADDED NOTE & SHEET 10	DRAWN: BOB		
MM/LL	MM/LL	MM/LL	DATE: 11.30.05		
02-26-07	02-26-07	11/28/06	DWG. NO.: F4S-H-203		
ADDED CHOKES ARRANGEMENT FOR RIGS 279-280	ADDED NOTE & SHEET 10	ADDED CHOKES ARRANGEMENT FOR RIGS 279-280	SCALE: 3/4"=1'-0"		
BY	BY	BY	SHEET: 1 OF 12		
REV	DATE	DESCRIPTION	REV:		
A	11/28/06	ADDED CHOKES ARRANGEMENT FOR RIGS 279-280	H		

CONFIDENTIAL STATUS



HARVEST (US) HOLDINGS, INC.

LOCATION LAYOUT FOR

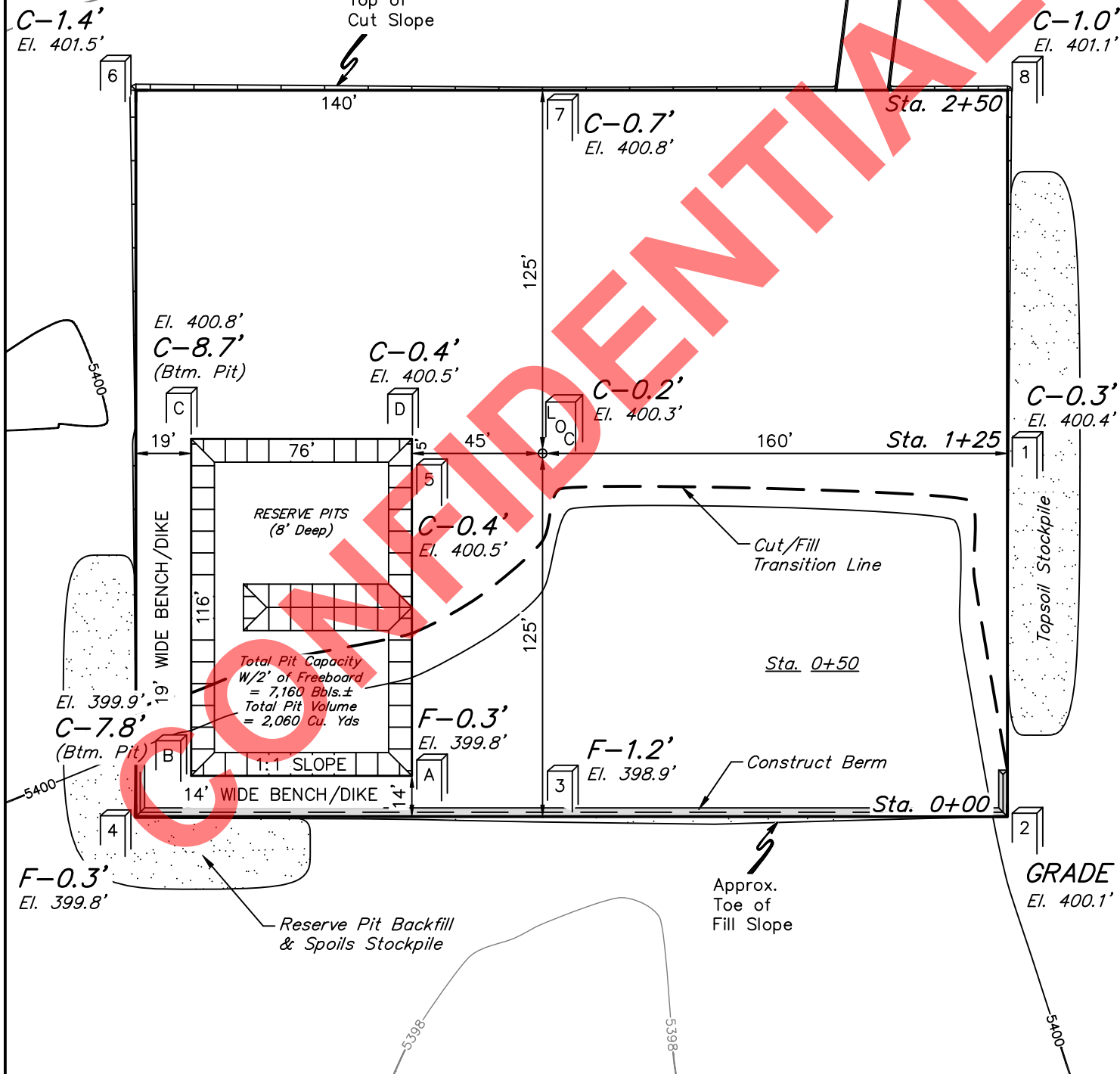
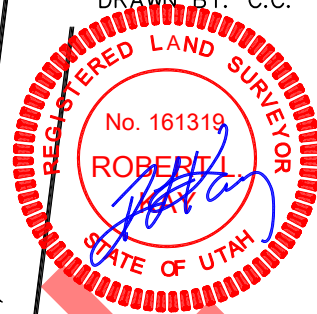
CULBERTSON #11-8-4-2
SECTION 8, T4S, R2W, U.S.B.&M.
1980' FSL 1980' FWL

FIGURE #1

SCALE: 1" = 50'

DATE: 01-17-11

DRAWN BY: C.C.



Elev. Ungraded Ground At Loc. Stake = 5400.3'
FINISHED GRADE ELEV. AT LOC. STAKE = 5400.1'

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May. 26, 2011

HARVEST (US) HOLDINGS, INC.

FIGURE #2

TYPICAL CROSS SECTIONS FOR

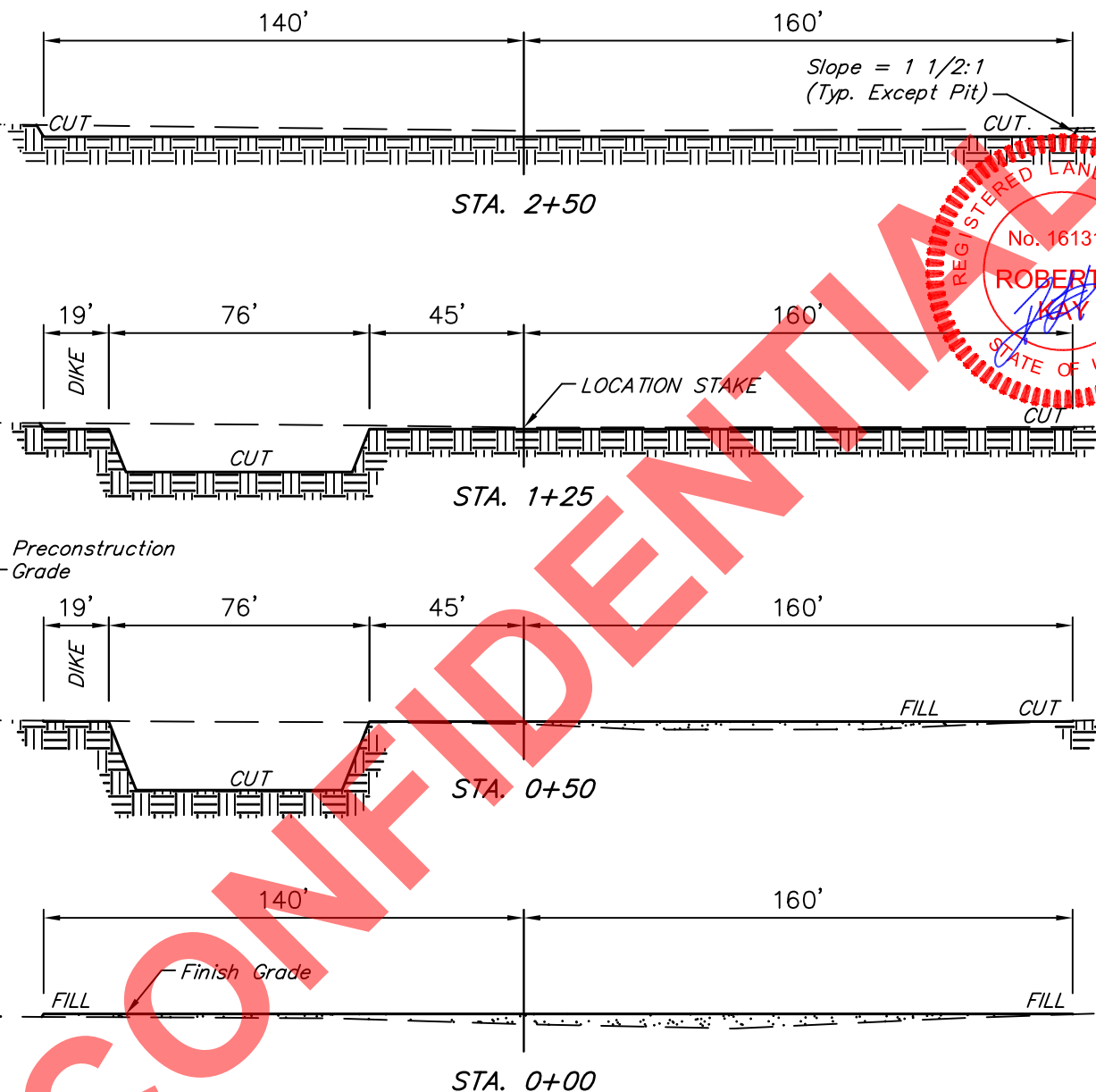
CULBERTSON #11-8-4-2

SECTION 8, T4S, R2W, U.S.B.&M.

1980' FSL 1980' FWL

1" = 20'
X-Section
Scale
1" = 50'

DATE: 01-17-11
DRAWN BY: C.C.
REVISED: 03-16-11



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

APPROXIMATE ACREAGES

WELL SITE DISTURBANCE = ± 2.410 ACRES
ACCESS ROAD DISTURBANCE = ± 0.825 ACRES
TOTAL = ± 3.235 ACRES

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

(6") Topsoil Stripping = 1,440 Cu. Yds.
Remaining Location = 2,180 Cu. Yds.
TOTAL CUT = 3,620 CU.YDS.
FILL = 1,070 CU.YDS.

EXCESS MATERIAL = 2,550 Cu. Yds.
Topsoil & Pit Backfill = 2,470 Cu. Yds.
(1/2 Pit Vol.)
EXCESS UNBALANCE = 80 Cu. Yds.
(After Interim Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May. 26, 2011

HARVEST (US) HOLDINGS, INC.

TYPICAL RIG LAYOUT FOR

CULBERTSON #11-8-4-2
SECTION 8, T4S, R2W, U.S.B.&M.
1980' FSL 1980' FWL

FIGURE #3

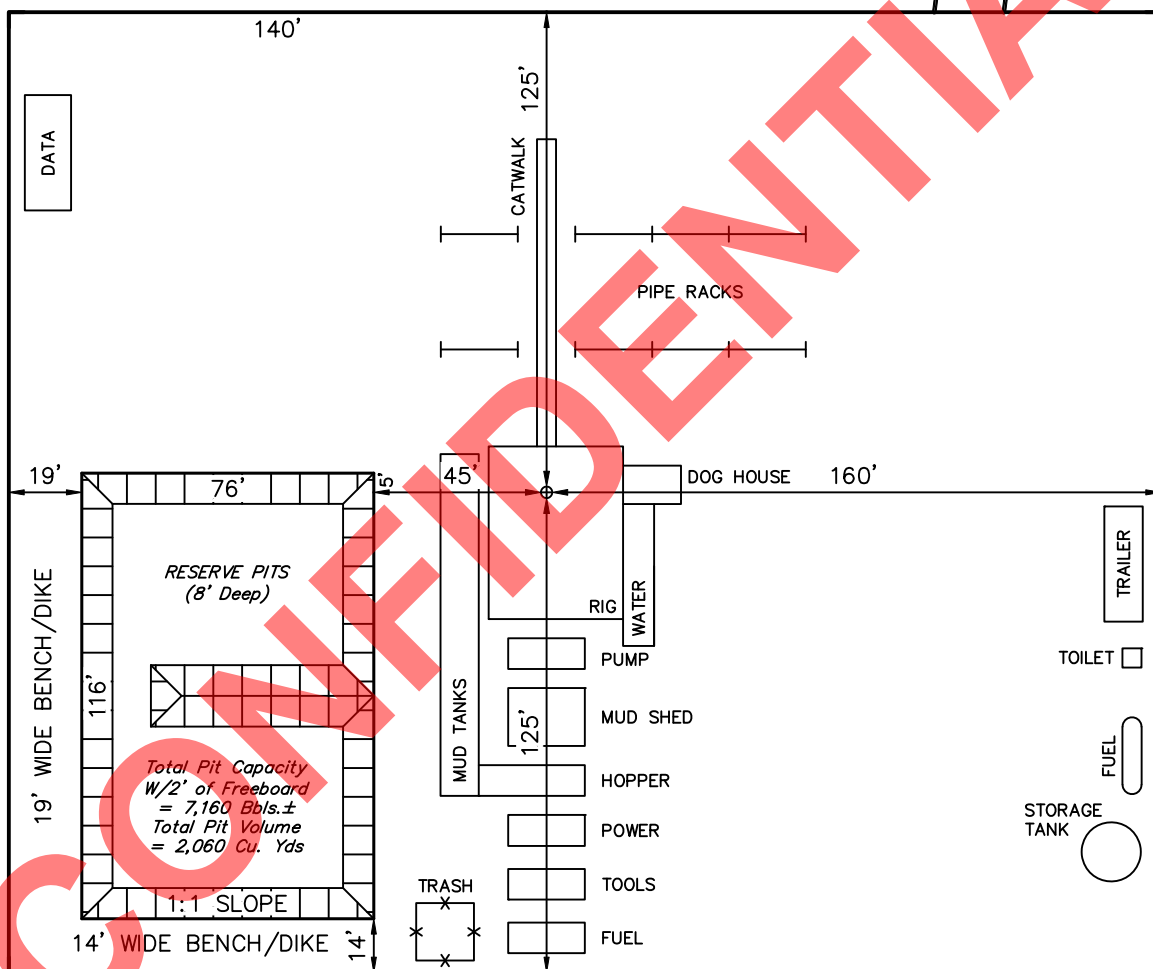
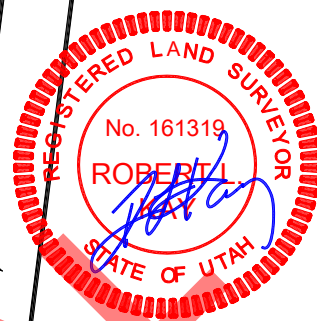
SCALE: 1" = 50'

DATE: 01-17-11

DRAWN BY: C.C.



Proposed
Access Road



UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May. 26, 2011

HARVEST (US) HOLDINGS, INC.

PRODUCTION FACILITY LAYOUT FOR

CULBERTSON #11-8-4-2
SECTION 8, T4S, R2W, U.S.B.&M.
1980' FSL 1980' FWL

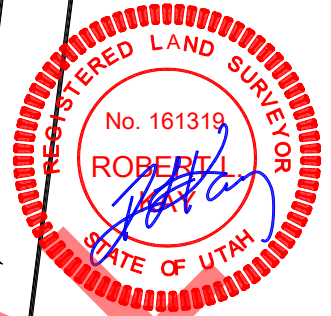


FIGURE #4

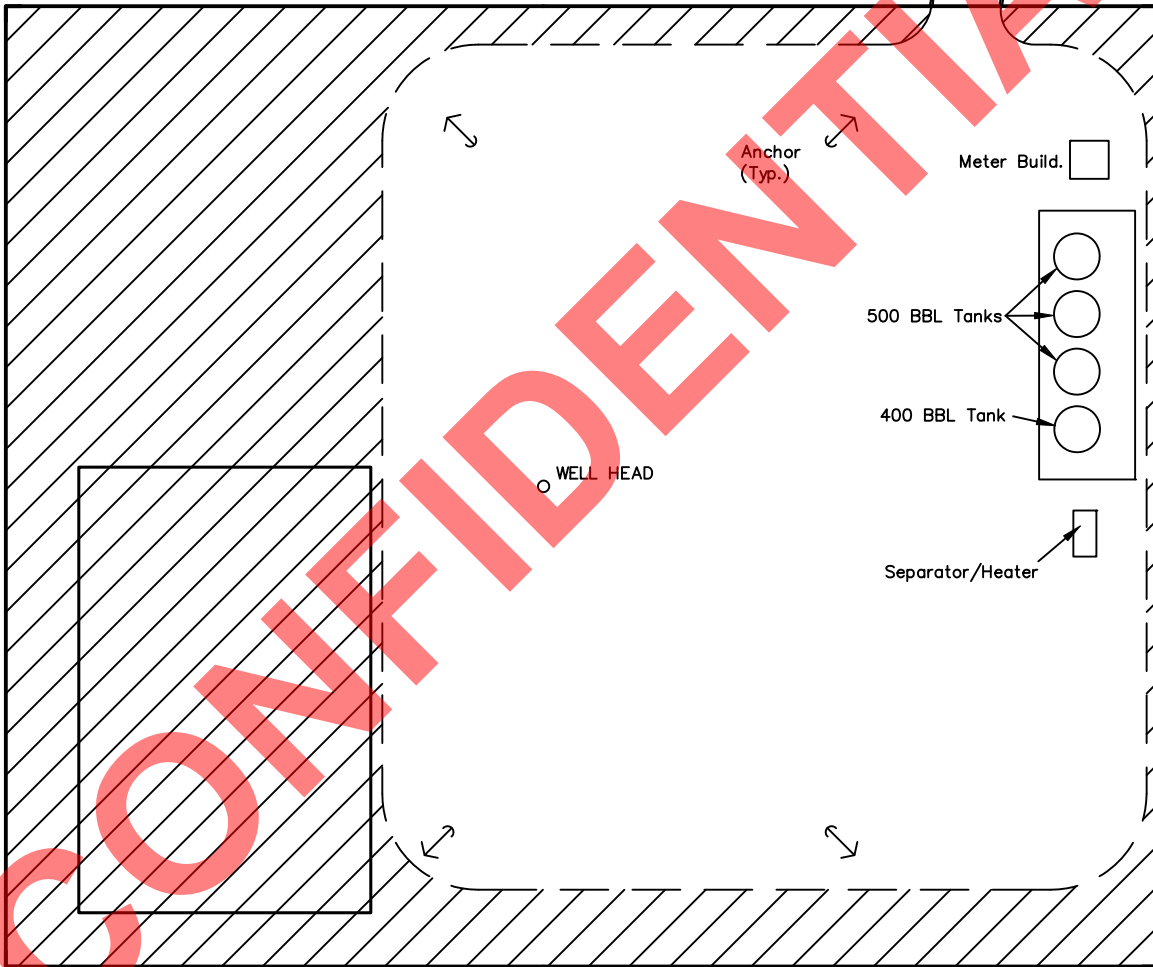
SCALE: 1" = 50'

DATE: 01-17-11

DRAWN BY: C.C.



Proposed
Access Road



RECLAIMED AREA

UINTAH ENGINEERING & LAND SURVEYING

85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

RECEIVED: May. 26, 2011





State of Utah

GARY R. HERBERT
Governor

GREG BELL
Lieutenant Governor

Office of the Governor
PUBLIC LANDS POLICY COORDINATION

JOHN HARJA
Director

April 4, 2011

Diana Mason
Petroleum Specialist
Department of Natural Resources, Division of Oil Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, UT 84114-5801

Subject: Application for Permit to Drill Culbertson #11-8-4-2 well
RDCC Project No. 25708

Dear Ms. Mason:

The State of Utah, through the Public Lands Policy Coordination Office (PLPCO), has reviewed this project. Utah Code (Section 63J-4-601, *et. seq.*) designates PLPCO as the entity responsible to coordinate the review of technical and policy actions that may affect the physical resources of the state, and to facilitate the exchange of information on those actions among federal, state, and local government agencies. As part of this process, PLPCO makes use of the Resource Development Coordinating Committee (RDCC). The RDCC includes representatives from the state agencies that are generally involved or impacted by public lands management.

Division of Air Quality

Because fugitive dust may be generated during soil disturbance the proposed project will be subject to Air Quality rule R307-205-5 for Fugitive Dust. These rules apply to construction activities that disturb an area greater than 1/4 acre in size. A permit, known as an Approval Order, is not required from the Executive Secretary of the Air Quality Board, but steps need to be taken to minimize fugitive dust, such as watering and/or chemical stabilization, providing vegetative or synthetic cover or windbreaks. A copy of the rules can be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The state encourages the use of Best Management Processes (BMP s) in protecting air quality in Utah. The state recommends the following BMP s as standard operating procedures:

- 1) Emission Standards for Stationary Internal Combustion Engines of 2 g/bhp-hr of NOx for engines less than 300 HP (Tier 3) and 1 g/bhp-hr of NOx for engines over 300 HP (Tier 3).
- 2) No or low bleed controllers for Pneumatic Pumps, Actuators and other Pneumatic devices.

- 3) Green completion or controlled VOC emissions methods with 90% efficiency for Oil or Gas Atmospheric Storage Tanks, VOC Venting controls or flaring. Glycol Dehydration and Amine Units Units, VOC Venting controls or flaring, Well Completion, Re-Completion, Venting, and Planned Blowdown Emissions.

If compressors or pump stations are constructed at the site a permit application, known as a Notice of Intent (NOI), should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, Salt Lake City, Utah, 84116 for review according to R307-401: Permit: Notice of Intent and Approval Order, of the Utah Air Quality Rules. A copy of the rules can be found at www.rules.utah.gov/publicat/code/r307/r307.htm.

The State of Utah appreciates the opportunity to review this proposal and we look forward to working with you on future projects. Please direct any other written questions regarding this correspondence to the Public Lands Policy Coordination Office at the address below, or call Judy Edwards at (801) 537-9023.

Sincerely,



John Harja
Director

CONFIDENTIAL

Well Name	HARVEST (US) HOLDINGS, INC Culbertson #11-8-4-2 430135			
String	Cond	Surf	Prod	
Casing Size(")	13.375	8.625	5.500	
Setting Depth (TVD)	20	900	9000	
Previous Shoe Setting Depth (TVD)	0	20	900	
Max Mud Weight (ppg)	8.4	8.6	9.7	
BOPE Proposed (psi)	0	500	5000	
Casing Internal Yield (psi)	500	3930	7740	
Operators Max Anticipated Pressure (psi)	4302		9.2	

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	9	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5	NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5	NO OK
Required Casing/BOPE Test Pressure=		20	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	402	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	294	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	204	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	208	NO Reasonable depth
Required Casing/BOPE Test Pressure=		900	psi
*Max Pressure Allowed @ Previous Casing Shoe=		20	psi *Assumes 1psi/ft frac gradient

Calculations	Prod String	5.500	"
Max BHP (psi)	.052*Setting Depth*MW=	4540	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3460	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2560	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2758	NO Reasonable for area
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		900	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO
Required Casing/BOPE Test Pressure=			psi

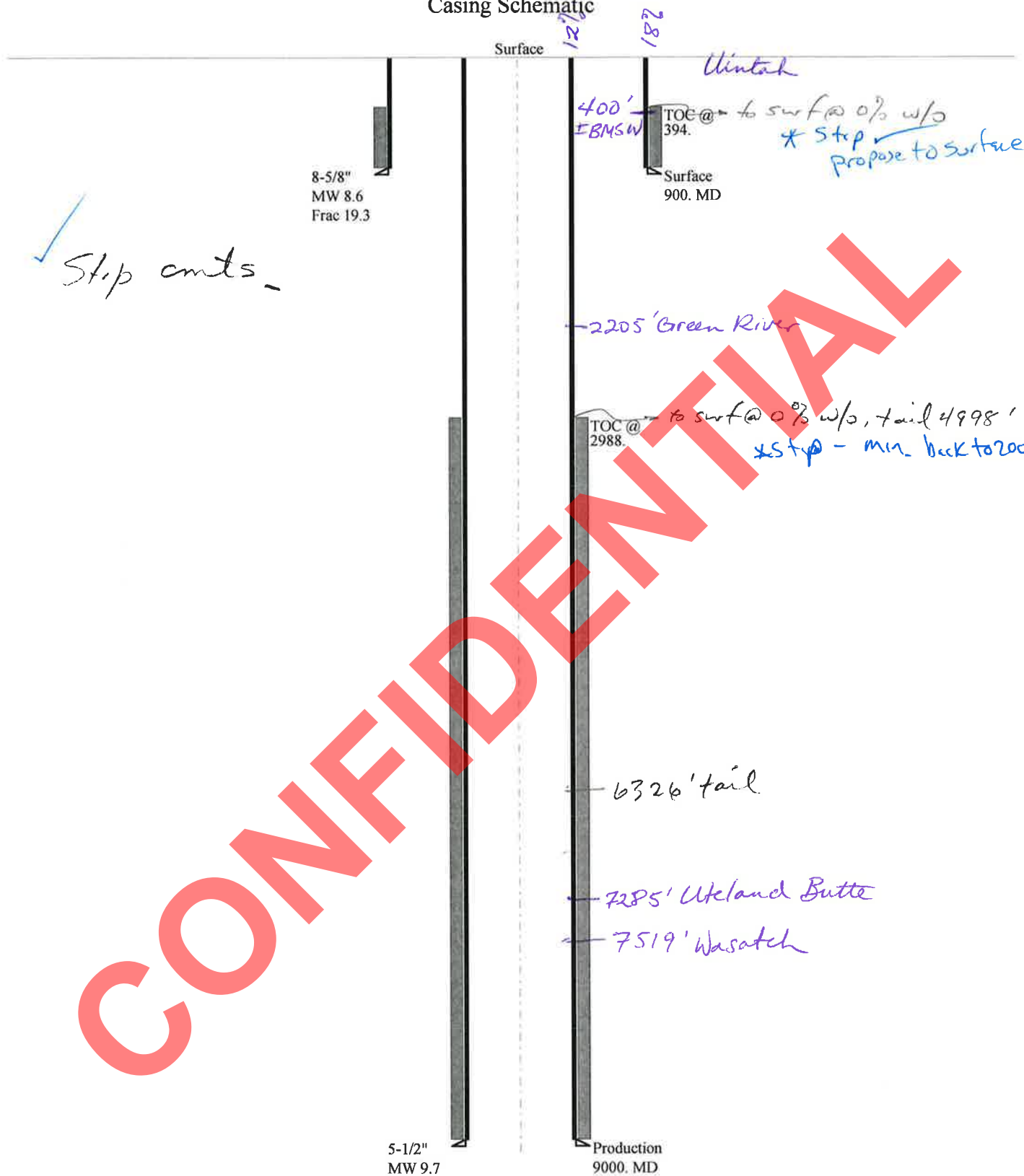
*Max Pressure Allowed @ Previous Casing Shoe=

psi *Assumes 1psi/ft frac gradient

CONFIDENTIAL

43013506430000 Culbertson #11-8-4-2

Casing Schematic



Well name:	43013506430000 Culbertson #11-8-4-2	
Operator:	HARVEST (US) HOLDINGS, INC	Project ID:
String type:	Surface	43-013-50643
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 8.600 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 87 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 394 ft

Burst

Max anticipated surface pressure: 792 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 900 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 785 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 9,000 ft
Next mud weight: 9.700 ppg
Next setting BHP: 4,535 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 900 ft
Injection pressure: 900 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	900	8.625	32.00	J-55	LT&C	900	900	7.875	7252
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	402	2530	6.293	900	3930	4.37	28.8	417	14.48 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: May 23, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 900 ft, a mud weight of 8.6 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED: May. 26, 2011

Well name:	43013506430000 Culbertson #11-8-4-2		
Operator:	HARVEST (US) HOLDINGS, INC		
String type:	Production	Project ID:	43-013-50643
Location:	DUCHESE COUNTY		

Design parameters:**Collapse**

Mud weight: 9.700 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 200 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 2,988 ft

Burst

Max anticipated surface pressure: 2,555 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 4,535 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on air weight.
Neutral point: 7,676 ft

Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9000	5.5	17.00	L-80	LT&C	9000	9000	4.767	57023
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4535	6290	1.387	4535	7740	1.71	153	338	2.21 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: May 23, 2011
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9000 ft, a mud weight of 9.7 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

RECEIVED: May. 26, 2011

ON-SITE PREDRILL EVALUATION**Utah Division of Oil, Gas and Mining**

Operator HARVEST (US) HOLDINGS, INC
Well Name Culbertson #11-8-4-2
API Number 43013506430000 **APD No** 3545 **Field/Unit** WILDCAT
Location: 1/4,1/4 NESW Sec 8 Tw 4.0S **Rng** 2.0W 1980 FSL 1980 FWL
GPS Coord (UTM) 373682 4444295 **Surface Owner** Elsie J. Culbertson (John)

Participants

Floyd Bartlett (DOGM), Jeff Schrutka, John Paul McKee and Zander McIntyre (Harvest (US) Holdings, INC).

Regional/Local Setting & Topography

The general area is on South Myton Bench approximately 5.9 road miles southwest of Myton, UT. The terrain appears to drain northerly approximately two miles to the Pleasant Valley and Gray Mountain Canals. The general area is characterized by broad flats in rolling topography. Some flats are intersected by drainages with gentle to moderate side slopes. Access is by State and County and existing or planned oil field development roads. Approximately 1,224 feet of road will be improved or constructed across private land to reach the location.

The proposed pad for the Culbertson #11-8-4-2 oil well is oriented in a west to east direction on a flat which has a subtle slope to the north on the reserve pit side. Beyond the location the slope continues gently to the northwest. The outer edge of the reserve pit (Corners B and A) is within a small fill. Fill at corner B is 0.3 feet. Two feet of freeboard and an outer 14 foot wide bench are planned. The pit will be lined with a 20-mil liner. With these conditions the pit should be stable. No drainages intersect the location. No springs, streams, seeps or ponds are known to exist in the general area. The location is within the normal drilling window and appears to be a suitable site for drilling and operating a well.

Elsie J. Culbertson (John) of Denver, Colorado owns the surface.

Surface Use Plan**Current Surface Use**

Grazing
Wildlife Habitat

New Road Miles

0.23

Well Pad

Width 250 **Length** 300

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities

N

Waste Management Plan Adequate?**Environmental Parameters**

Affected Floodplains and/or Wetlands N

Flora / Fauna

The vegetation is a desert shrub type. Common plants include shadscale, curly mesquite grass, winter fat, horsebrush, halogeton, broom snakeweed and weedy annuals.

Cattle, deer, small mammals and birds.

Soil Type and Characteristics

Deep sandy clay loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources?

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
Final Score	20	1 Sensitivity Level

Characteristics / Requirements

A 76' x 116' x 8' deep reserve pit is proposed in the northeast corner of the location. The outer edge of the reserve pit (Corners B and A) is within a small fill. Fill at corner B is 0.3 feet. Two feet of freeboard and an outer 14 foot wide bench are planned. The pit will be lined with a 20-mil liner. With these precautions the pit should be stable.

Closed Loop Mud Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

Other Observations / CommentsFloyd Bartlett
Evaluator3/17/2011
Date / Time

Application for Permit to Drill Statement of Basis

5/26/2011

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
3545	43013506430000	LOCKED	OW	P	No
Operator	HARVEST (US) HOLDINGS, INC		Surface Owner-APD	Elsie J. Culbertson (John)	
Well Name	Culbertson #11-8-4-2		Unit		
Field	WILDCAT		Type of Work	DRILL	
Location	NESW 8 4S 2W U 1980 FSL 1980 FWL GPS Coord (UTM) 573685E 4444283N				

Geologic Statement of Basis

Harvest proposes to set 900' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 400'. A search of Division of Water Rights records shows 8 water wells within a 10,000 foot radius of the center of Section 8.. Depths for these wells ranges from 10 to 250 feet. Only one well is within 1 mile of the proposed location. This well is approximately 1/2 mile from the proposed site and no depth is listed for this well. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect usable ground water in this area.

Brad Hill
APD Evaluator

4/4/2011
Date / Time

Surface Statement of Basis

The general area is on South Myton Bench approximately 5.9 road miles southwest of Myton, UT. The terrain appears to drain northerly approximately two miles to the Pleasant Valley and Gray Mountain Canals. The general area is characterized by broad flats in rolling topography. Some flats are intersected by drainages with gentle to moderate side slopes. Access is by State and County and existing or planned oil field development roads. Approximately 1,224 feet of road will be improved or constructed across private land to reach the location.

The proposed pad for the Culbertson #11-8-4-2 oil well is oriented in a west to east direction on a flat which has a subtle slope to the north on the reserve pit side. Beyond the location the slope continues gently to the northwest. The outer edge of the reserve pit (Corners B and A) is within a small fill. Fill at corner B is 0.3 feet. Two feet of freeboard and an outer 14 foot wide bench are planned. The pit will be lined with a 20-mil liner. With these conditions the pit should be stable. No drainages intersect the location. No springs, streams, seeps or ponds are known to exist in the general area. The location is within the normal drilling window and appears to be a suitable site for drilling and operating a well.

Elsie J. Culbertson (John) of Denver, Colorado owns the surface. Mr. Culbertson was contacted by telephone and advised of and invited to attend the pre-site evaluation. He said he would not attend. A Surface Use Agreement exists. The minerals are owned by another party and under lease to Harvest (US) Holdings INC..

Floyd Bartlett
Onsite Evaluator

3/17/2011
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner as needed shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

RECEIVED: May. 26, 2011

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 3/11/2011

API NO. ASSIGNED: 43013506430000

WELL NAME: Culbertson #11-8-4-2

OPERATOR: HARVEST (US) HOLDINGS, INC (N3520)

PHONE NUMBER: 435 719-2018

CONTACT: Don Hamilton

PROPOSED LOCATION: NESW 08 040S 020W

Permit Tech Review: ☒

SURFACE: 1980 FSL 1980 FWL

Engineering Review: ☒

BOTTOM: 1980 FSL 1980 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.14756

LONGITUDE: -110.13494

UTM SURF EASTINGS: 573685.00

NORTHINGS: 4444283.00

FIELD NAME: WILDCAT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE/FEE - B 004657☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Neil Moon Pond☒ RDCC Review: 2011-05-24 00:00:00.0☒ Fee Surface Agreement☐ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: R649-3-2

Effective Date:

Siting:

☐ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:

5 - Statement of Basis - bhill
11 - Cement Productive Zones - ddoucet
21 - RDCC - dmason
23 - Spacing - dmason
25 - Surface Casing - hmacdonald

RECEIVED: May. 26, 2011



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Culbertson #11-8-4-2

API Well Number: 43013506430000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 5/26/2011

Issued to:

HARVEST (US) HOLDINGS, INC, 1177 Enclave Parkway, Houston, TX 77077

Authority:

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-2. The expected producing formation or pool is the WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

The Application for Permit to Drill has been forwarded to the Resource Development Coordinating Committee for review of this action. The operator will be required to comply with any applicable recommendations resulting from this review. (See attached)

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Production casing shall be cemented 500' minimum above producing formations encountered while drilling and 500' minimum above any zones tested. Cement should be brought back to a minimum of

2000' to isolate the Green River formation.

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

Approved By:

API Well No: 43013506430000

Approved by:

A handwritten signature in black ink, appearing to read "J. Rogers", written in a cursive style.

For John Rogers
Associate Director, Oil & Gas

Division of Oil, Gas and Mining
OPERATOR CHANGE WORKSHEET

ROUTING

1. CDW

X - Change of Operator (Well Sold)

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

5/17/2011

FROM: (Old Operator): N3520-Harvest (US) Holdings, Inc 1177 Enclave Parkway, Suite 300 Houston, TX 77077 Phone: 1 (281) 899-5700				TO: (New Operator): N2695-Newfield Production Company 1001 17th St, Suite 2000 Denver, CO 80202 Phone: 1 (303) 893-0102			
CA No.				Unit:			
WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE
SEE 11 ATTACHED SUNDRIES							

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on 6/22/2011
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/22/2011
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/22/2011
- Is the new operator registered in the State of Utah: yes Business Number: 755627-0143
- If **NO**, the operator was contacted on:
- (R649-9-2) Waste Management Plan has been received on: IN PLACE
- Inspections of LA PA state/fee well sites complete or n/a
- Reports current for Production/Disposition & Sundries on: ok
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM n/a BIA n/a
- Federal and Indian Units:**
The BLM or BIA has approved the successor of unit operator for wells listed on: n/a
- Federal and Indian Communization Agreements ("CA"):**
The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
- Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: n/a

DATA ENTRY:

- Changes entered in the **Oil and Gas Database** on: 7/14/2011
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 7/14/2011
- Bond information entered in RBDMS on: 7/14/2011
- Fee/State wells attached to bond in RBDMS on: 7/14/2011
- Injection Projects to new operator in RBDMS on: n/a
- Receipt of Acceptance of Drilling Procedures for APD/New on: n/a

BOND VERIFICATION:

- Federal well(s) covered by Bond Number: WY000483
- (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number B001834
- The **FORMER** operator has requested a release of liability from their bond (n/a)
The Division sent response by letter on: n/a

LEASE INTEREST OWNER NOTIFICATION:

- (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 7/14/2011

COMMENTS:

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: FEE
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY N2695		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
3. ADDRESS OF OPERATOR: 1001 17TH ST, SUITE 2000 CITY DENVER STATE CO ZIP 80202		7. UNIT or CO AGREEMENT NAME: N/A
PHONE NUMBER: (303) 893-0102		8. WELL NAME and NUMBER: CULBERTSON #11-8-4-2
9. API NUMBER: 4301350643		10. FIELD AND POOL, OR WILDCAT: WILDCAT

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1980 FSL & 1980 FWL COUNTY: DUCHESNE
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESW 8 4S 2W STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: 5/17/2011	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion:	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input checked="" type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
Effective 05/17/2011, Newfield Production Company will take over operations of the referenced well.
The previous owner/operator was:

Harvest (US) Holdings, Inc.
1177 Enclave Parkway
Houston, TX 77077

Effective 05/17/2011, Newfield Production Company is responsible under the terms and conditions of the leases for operations conducted on the leases lands or a portion thereof under ~~BLM~~ Bond No. ~~RLB0010466~~ B001834

Harvest (US) Holdings, Inc.
Print Name: Patrick R. Oenbring N3520 Title: President and CEO

Seller Signature: Patrick R. Oenbring Date: 05/17/2011

NAME (PLEASE PRINT) KELLY DONOHUE	TITLE RM LAND MANAGER
SIGNATURE <u>Kelly Donohue</u>	DATE 5/17/2011

(This space for State use only)

APPROVED 7/14/2011
(5/2000) Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

(See Instructions on Reverse Side)

RECEIVED
JUN 22 2011
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Request to Transfer Application or Permit to Drill

(This form should accompany a Sundry Notice, Form 9, requesting APD transfer)

Well name:	CULBERTSON #11-8-4-2
API number:	4301350643
Location:	Qtr-Qtr: NESW Section: 8 Township: 4S Range: 2W
Company that filed original application:	HARVEST (US) HOLDINGS INC
Date original permit was issued:	05/26/2011
Company that permit was issued to:	HARVEST (US) HOLDINGS INC

Check one	Desired Action:
<input type="checkbox"/>	Transfer pending (unapproved) Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property, hereby verifies that the information as submitted in the pending Application for Permit to Drill, remains valid and does not require revision. The new owner of the application accepts and agrees to the information and procedures as stated in the application.
<input checked="" type="checkbox"/>	Transfer approved Application for Permit to Drill to new operator
<input type="checkbox"/>	The undersigned as owner with legal rights to drill on the property as permitted, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.	Yes	No
If located on private land, has the ownership changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<input type="checkbox"/> If so, has the surface agreement been updated?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any changes to the access route including ownership or right-of-way, which could affect the proposed location?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Has the approved source of water for drilling changed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Is bonding still in place, which covers this proposed well? Bond No. <u>B001834</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Any desired or necessary changes to either a pending or approved Application for Permit to Drill that is being transferred, should be filed on a Sundry Notice, Form 9, or amended Application for Permit to Drill, Form 3, as appropriate, with necessary supporting information as required.

Name (please print) Kelly Donohoue Title RM Land Manager
Signature *Kelly Donohoue* Date 7/7/11
Representing (company name) Newfield Production Company

The person signing this form must have legal authority to represent the company or individual(s) to be listed as the new operator on the Application for Permit to Drill.

(3/2004)

RECEIVED
JUL 14 2011
DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: CULBERTSON #11-8-4-2	
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY	9. API NUMBER: 43013506430000	
3. ADDRESS OF OPERATOR: Rt 3 Box 3630, Myton, UT, 84052	PHONE NUMBER: 435 646-4825 Ext	9. FIELD and POOL or WILDCAT: WILDCAT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 Township: 04.0S Range: 02.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

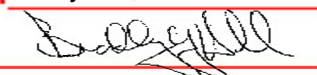
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/26/2012	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Newfield proposes to extend the Application for Permit to Drill this well
for one year.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: May 21, 2012

By: 

NAME (PLEASE PRINT) Mandie Crozier	PHONE NUMBER 435 646-4825	TITLE Regulatory Tech
SIGNATURE N/A		DATE 5/17/2012



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013506430000

API: 43013506430000

Well Name: CULBERTSON #11-8-4-2

Location: 1980 FSL 1980 FWL QTR NESW SEC 08 TWNP 040S RNG 020W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 5/26/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☒ Yes ☐ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Mandie Crozier

Date: 5/17/2012

Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: NEWFIELD PRODUCTION COMPANY		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: Rt 3 Box 3630 , Myton, UT, 84052		8. WELL NAME and NUMBER: CULBERTSON #11-8-4-2
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1980 FSL 1980 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 Township: 04.0S Range: 02.0W Meridian: U		9. API NUMBER: 43013506430000
PHONE NUMBER: 435 646-4825 Ext		9. FIELD and POOL or WILDCAT: SOUTH MYTON BENCH
COUNTY: DUCHESNE		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 5/26/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Newfield proposes to extend the Application for Permit to Drill this well.		
<div style="color: red; font-weight: bold;"> Approved by the Utah Division of Oil, Gas and Mining </div> <div style="color: red; font-weight: bold;"> Date: May 01, 2013 By: </div>		
NAME (PLEASE PRINT) Mandie Crozier		PHONE NUMBER 435 646-4825
SIGNATURE N/A		TITLE Regulatory Tech
DATE 4/25/2013		



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43013506430000

API: 43013506430000

Well Name: CULBERTSON #11-8-4-2

Location: 1980 FSL 1980 FWL QTR NESW SEC 08 TWNP 040S RNG 020W MER U

Company Permit Issued to: NEWFIELD PRODUCTION COMPANY

Date Original Permit Issued: 5/26/2011

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

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- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

Signature: Mandie Crozier

Date: 4/25/2013

Title: Regulatory Tech **Representing:** NEWFIELD PRODUCTION COMPANY